



AGRICULTURAL LIBRARIES INFORMATION NOTES

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TELEFACSIMILE TECHNOLOGY AND DOCUMENT DELIVERY

by

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ORIGINAL



Diagram shows flow of document requests through libraries participating in the telefacsimile study. A request travels via telefacsimile through a regional network—from regional research center library to land-grant library to NAL—until it is filled. The requested material is transmitted back to originating library also using telefacsimile.

This spring the National Agricultural Library completed a 5-month investigation of the use of telefacsimile equipment for document delivery. The data from that study has been analyzed by Steven A. Brown, Document Delivery Librarian, Science Library, University of Georgia in a report that has recently been issued by NAL. This article is based, in part, on the Executive Summary contained in the report and provides an overview of the project, summarizes key findings, and reports on NAL reaction to the study.

Overview

The evaluation study was funded by the U.S. Department of Agriculture's Office of the Assistant Secretary for Science and Education

COMPLETED

and the Agricultural Research Service (ARS), with contributions in kind by many of the 13 libraries involved in the project. Participants included the five regional research center (RRC) libraries of the ARS--Richard Russell Research Center-Athens, Western RRC-Berkeley, CA; Southern RRC-New Orleans, LA; Northern RRC-Peoria, IL; Eastern RRC-Philadelphia, PA;--seven land-grant university libraries (Cornell, Louisiana State, Pennsylvania State, Texas A&M, and the Universities of California-Davis, Georgia, and Illinois)--and NAL.

The libraries involved had, for the most part, worked together previously to supply documents in traditional ways via NAL's Regional Document Delivery System. Special procedures were established for this study, and particular efforts were made to ensure that a large volume of document delivery traffic--both requests for documents and the documents themselves--was transmitted over the telefacsimile network. More than 35,000 pages were transmitted during the study. A statistical summary of participating libraries is presented below.

**TELEFACSIMILE EVALUATION STUDY ACTIVITIES BY PARTICIPATING LIBRARIES
SEPTEMBER 1985 - JANUARY 1986**

	<u>ARS PARTICIPANTS</u>	<u>NAL & LAND-GRANT PARTICIPANTS</u>	<u>TOTALS FOR ALL PARTICIPANTS</u>
Transmissions sent	1,337	2,059	3,396
Transmissions received	1,005	1,681	4,266
Pages sent	1,133	34,285	35,418*
Pages received	21,143	9,067	30,210*
Pages resupplied to libraries	562	48	610

*Total pages sent and total pages received are not equal due to the lack of statistics from two sites.

Group III telefacsimile machines were used for the study, including an expensive top-of-the-line machine (the 3M EMT 9165) and a less-expensive machine (the Omnifax G99) which lacked some of the features of the 3M machine. Survey forms were used during and after the study to capture the reactions of end-users and library staff to telefacsimile use.

Key Findings

The most important conclusions of the study are these:

1. Print quality of documents delivered by the telefacsimile network was a serious problem. Most researchers did not find that the current telefacsimile technology could provide acceptable legibility in delivered articles. While many users found ordinary text unacceptable, even more complained about the reproduction of the graphic elements

(formulas, diagrams, graphs, etc.) so important in scientific articles.

2. Speed of document delivery was definitely enhanced by the use of telefacsimile equipment. ARS researchers receiving documents perceived an improvement in delivery speed, an improvement that many felt was important to their work.
3. Telefacsimile machines used in the study were generally reliable, although there were some problems with automatic page feed systems jamming. Repair service was good when needed. The limited capacity of the feeding hoppers was found to be a problem in large-scale document delivery: such limited capacity prevented the full use of night transmission for savings in telephone charges. The study recommends that (1) less expensive machines (such as the Omnifax G99) can offer adequate features and performance for use in telefacsimile document delivery networks, and (2) significant savings are possible if machines are purchased. With Group IV machines scheduled to appear in a short time, however, the study recommends that equipment be rented.



Maxie Jones, Student Aide in NAL's Lending Branch, receives requests and transmits requested materials using telefacsimile during the evaluation study period.

4. The cost of telefacsimile service is not insignificant, particularly when some of the problems encountered with the abilities of currently available equipment are considered. The cost of improvement in delivery speed was not found to be outrageous, although it varied dramatically from location to location, depending upon rents paid for equipment and the structure of long-distance telephone charges. An average article supplied by a land-grant library or NAL would cost approximately \$11.45 over and above normal document delivery costs.
5. The library community should carefully watch future developments in telefacsimile technology, particularly the Group IV machines. It is too early to tell if Group IV machines will show a big enough improvement in print

quality to be of use for routine document delivery to scientists. It is also hoped that in the near future telefacsimile equipment will be able to store and send images directly from the printed page without the need to make a photocopy first.

The findings of the study are fairly consistent with the findings of other telefacsimile studies. The most surprising result, however, was the strong negative reactions of scientists to the print quality of telefacsimile output.

The Bottom Line

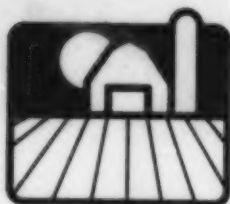
Because of the widespread dissatisfaction with print quality, the study recommends that telefacsimile service be instituted only for routine transmission of ILL requests. Articles should be delivered by traditional means most of the time, and only by telefacsimile when so requested by the researcher. Current telefacsimile equipment is fine for transmitting requests for documents, but is not adequate, in most cases, for filling actual document requests for scientific literature except in those cases where materials are needed very quickly and problems with print quality can be tolerated.

NAL staff are currently developing a policy statement on future telefacsimile use at NAL, and the results of this study are a major consideration in setting that policy. In essence, NAL will continue to accept requests for documents by telefacsimile, provided those requests have come through the traditional channels. Use of telefacsimile for this purpose (1) insures that NAL receives the request almost immediately, and (2) eliminates the need to key a request into an electronic mail system. NAL will fill document requests by telefacsimile only when so requested by the borrower under rush circumstances; a special charge for that service may be instituted.

A full statement on NAL's use of telefacimile for document delivery purposes will be issued this summer. NAL will continue to monitor closely future developments with telefacsimile and other technologies that could be of use in document delivery.

Steven Brown's report of this study is entitled Final Report of the National Agricultural Library Telefacsimile Evaluation Project. The 117-page report includes detailed discussions of how the study was conducted, as well as separate chapters on equipment, speed of delivery, print quality, and costs. Appendices in the report contain sample forms and completed survey forms from participating libraries.

A limited number of the reports are available (at no charge) from Jannette Shuford-Hall, National Agricultural Library, Public Services Division, Room 100, Beltsville, Maryland 20705.



NEWS NOTES

AQUACULTURE SPECIALIST LAUNCHES VISITING SCHOLAR PROGRAM



Dr. Mazzaccaro

Dr. Tony P. Mazzaccaro has been designated scholar-in-residence at NAL. A specialist in aquaculture and marine sciences, he is the first participant in NAL's newly established Visiting Scholar Program.

In making the announcement, Director Joseph H. Howard said "The knowledge and reputation which Dr. Mazzaccaro brings to NAL will enable the Library to increase the impact of its extensive information resources in aquaculture. We are delighted to welcome him on-board." During his 1-year term, Dr. Mazzaccaro will serve as technical advisor to the Aquaculture Information Center. He will be actively involved in the development of the Center's expert system on aquaculture and will help direct other special programs in aquaculture.

Dr. Mazzaccaro is the former Assistant Director of Marine Advisory Programs of the Maryland Cooperative Extension Service--a position he was named to in 1978. In that capacity he was responsible for the coordination of information and advisory programs targeted to the state's watermen, seafood industries, marina owners, and recreational boaters. Under his leadership, the program's budget and staffing allocations more than doubled. Beginning in 1984, he also served concurrently as Acting Director for Natural Resources at the University of Maryland. Prior to his association with Maryland, he held administrative positions with the Texas A&M Recreation and Parks Department and the Texas Agricultural Extension Service. He received a B.S. degree from the University of Maryland and an M.S. and Ph.D. from Texas A&M University.

Dr. Mazzaccaro has written extensively about environmental issues impacting the Chesapeake Bay and its fisheries. He has produced numerous radio broadcasts and television public service announcements on the subject. He has traveled widely throughout the mid-Atlantic region addressing professional societies and community groups on the Chesapeake Bay and its relationship to agriculture.

The NAL Visiting Scholar Program is designed to attract distinguished agricultural researchers and information specialists to make prolonged use of its unparalleled collections. At the same time, it hopes to utilize the knowledge brought by these scholars to make the collections and services of NAL more valuable to all users. For additional information about the program, contact the Office of the Director, NAL. 



NAL ESTABLISHES FELLOWSHIP PROGRAM IN ORNAMENTAL HORTICULTURE

The National Agricultural Library and the University of Maryland, Department of History, have signed a cooperative agreement under which a fellowship program in ornamental horticulture will be established at the University. The master's-level program will have thesis focus on the historical development of marketing research and information services for the ornamental horticulture industry. Ornamental horticulture includes floriculture, landscaping, and nursery management.



Truman Fossum (l.) chats with Dr. Richard T. Farrell, Assoc. Chair, Dept. of History, Univ. of Maryland at a reception announcing the agreement.

The fellowship will be funded through a gift donation made to the Library through the offices of M. Truman Fossum. Fossum is a noted ornamental horticulture statistician and former Head of Marketing Facts for Floriculture, Washington, D.C. His extensive personal library of bibliographic and related materials in ornamental horticulture economics was donated to NAL in 1982 by the Fossum Foundation Library of North Dakota State University.

"The establishment of a fellowship program of this nature would not have been possible without the support of private sector donations such as this

one," noted NAL Director Joseph H. Howard in accepting the donation. "The published research emanating from the program will benefit the horticulture community and enhance the bibliographic base of our national collection."

In 1984, the Fossum collection also helped prompt a major gift from the American Florists Endowment (AFE) to be used for the distribution of information on floriculture to growers, wholesalers, and retailers in the industry. One result of the AFE donation has been the compilation of a preliminary register of the Fossum material by the University of Maryland, Department of Horticulture. NAL is now in the process of evaluating a microcomputer system for the preparation of a detailed register. 

FNIC LENDING POLICY TO REQUIRE POSTAGE-FEE PAYMENT

Beginning July 1, 1986, patrons borrowing materials from the Food and Nutrition Information Center (FNIC) will be required to pay return postage. This change in policy is a result of Federal budget cutbacks.

In order to provide better service to patrons, FNIC films, filmstrips, and slides stored at the University of Maryland will be shipped by United Parcel Service (UPS) rather than first class mail. It will be necessary for all patrons to provide a street address rather than a post office box for delivery. The lending time for these items will be extended to 1 month.

This new mailing policy applies to both the FNIC items returned to the University of Maryland as well as the books and other audiovisuals returned to FNIC at the National Agricultural Library.

For further information and/or to receive a list of organizations or programs eligible to borrow materials directly from FNIC, contact Robyn Frank, Chief, Food and Nutrition Information Center, NAL, (301) 344-3719. 

STACKS MOVE LIMITS ILL SERVICE

ATTENTION NON-USDA USERS!

NAL is forced to limit interlibrary loan services in certain subject areas during the transfer of the D.C. Reference Center stacks to NAL headquarters in Beltsville, beginning this summer.

The NAL collection is being consolidated as part of an ongoing reorganization of NAL services aimed at improving document delivery to all Library patrons. The shift of the approximately 250,000 D.C. based-volumes and the subsequent integration of this collection into the stacks of the main library is expected to be completed in September.

Material in the following subject areas, with the exception of USDA publications, may not be available for loan or photocopy from June 1 to September 1: ECONOMICS, STATISTICS, INTERNATIONAL TRADE, AGRICULTURAL INDUSTRY, PERSONNEL MANAGEMENT, ORGANIZATIONAL MANAGEMENT, RURAL SOCIOLOGY, THIRD WORLD DEVELOPMENT. We suggest you try to locate this material elsewhere or request from us again when the move is complete.

Following completion of the move, the D.C. Reference Center will remain in the South Building to assist users. The Center offers a wide array of reference resources, display journals, newspaper dailies, and automated services.

We regret this inconvenience and plan to restore full service in September.

For further information contact Carol Ditzler, Head, Lending Branch, (301) 344-3503. 

1987 OBERLY AWARD NOMINATIONS OPEN

Nominations are being sought for the 1987 Oberly Award. The award is presented biennially for the best published bibliography in the agricultural or related sciences. To be eligible, a bibliography must have

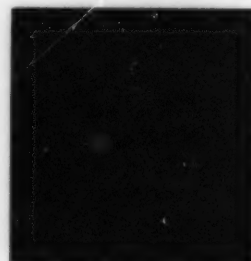
been published in 1985 or 1986, and an author, editor, or compiler must be a U.S. citizen. The award is presented by the Science and Technology section of the Association of College and Research Libraries, and carries a small cash prize. Nominations in the form of a letter and including, if possible, a copy of the work, should be sent by January 1, 1987, to: John P. Abbott, Chair, Oberly Award Committee, Box 8001, North Carolina State University, Raleigh, NC 27695-8001. 



STAFF UPDATE

ILL LIBRARIAN NAMED

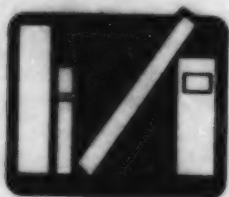
NAL-Beltsville welcomes Julianne Mangin as our librarian in charge of the Interlibrary Borrowing Unit of the Lending Branch. Julie came to Lending in April from the D.C. Reference Center where she was a reference librarian. Julie's previous experience includes both interlibrary borrowing and circulation responsibilities while at the Uniformed Services University Learning Resource Center, Bethesda, MD.



J. Mangin

Ms. Mangin received her B.A. from the University of Maryland and her master's degree in library science from Catholic University, Washington, D.C. While attending school she worked for the Montgomery County Public Libraries in Rockville. In her new position, Julie's tasks will involve developing cooperative efforts with USDA patrons as well as other librarians, and implementation of various changes to improve service.

Julie is a member of the Folklore Society of Greater Washington and the Country Dance and Song Society of America.



BOOK TRADE

VERTEBRATE PEST CONFERENCE PROCEEDINGS

Back issues of proceedings of a national conference dealing with aspects of vertebrate pest ecology and management are available to agricultural libraries which have no past issues or wish to replace missing issues. Proceedings from the 5th through the 10th conference are available free (9th is out-of-print).

Proceedings from the 11th and 12th sessions of the Vertebrate Pest Conference are available for \$10 and \$15, respectively. (The 12th will be available mid-August 1986.) To receive back issues, order current issues, or request to be placed on a standing order list, contact:

Terrell P. Salmon, Business Manager
Vertebrate Pest Conference
Wildlife Extension
University of California
Davis, CA 95616
(916) 752-6409

SURPLUS PUBLICATIONS AVAILABLE

The following Russian publications are surplus to the needs of the National Agricultural Library's collection. They will be made available to any interested organization that regularly sends free publications to NAL. This includes most Federal, land-grant, and agricultural research institutions in the U.S., as well as many foreign institutions. U.S. requests will get first priority. Listed titles can be requested up to 6 weeks following announcement.

If interested, please write to: National Agricultural Library, USDA, Attn: Gift and Exchange, Room 112, Beltsville, MD 20705 (enclose a return addressed label), or call Susan Fugate, (301) 344-2904.

Biological Bases of Plant Selection.
Moskva: Kolos, 1981.

Brown Breeds of Cattle. Moskva: Kolos, 1981.

Catalog of Fruit Crop Varieties of the All-Union Scientific Research Institute of Plant Growing in the Crimea.
Simferopol': Krymizdat, 1960.

The Chemical Composition and Nutritive Value of Plant Feeds. Frunze: Ilim, 1981.

Complex Mechanization in the Harvesting of Grain Crops. Moskva: Kolos, 1981.

Complex Regulation of the Condition of Plant Life on Peat Soils. Minsk: Uradzhal, 1980.

Dicrocoeliid Trematodes of the World Fauna. Kazakh SSR: Alma-Ata, 1984.

Efficiency in Applying Mineral Fertilizers. Moskva: Kolos, 1981.

Flora and Vegetation of Latvia. Riga: Zinatne, 1985.

Handbook on Purchasing Animal Products. Moskva: Kolos, 1981.

Handbook on Swine Diseases. Kiev: Urozhai, 1981.

Heredity and Variation of Plants, Animals, and Microorganisms. Vols. I and II. Moskva: Izd-vo Akademii nauk SSR, 1959.

Identification of Harmful and Useful Insects and Mites of Commercial Crops in the U.S.S.R. Leningrad: Kolos, 1981.

Increasing Soil Fertility and Aericultural Productivity Through the Intensive Adoption of Chemical Methods. Moskva: Nauka, 1983.

Infectious Diseases of Animals and Their Natural Foci. Frunze: Ilim, 1974 and 1982.

Infectious Diseases of Sheep. Frunze: Ilim, 1976.

Infectious Diseases of Sheep and Questions Regarding Natural Foci. Frunze: Ilim, 1971.

Infectious Diseases of Sheep in Kirgizia. Frunze: Ilim, 1969.

The Influence of Field Crop Cultivation Technology on the Development of Pests and Diseases. Kishinev: Shtiintsa, 1981.

Mathematical Simulation of Agrometeorological Conditions of Winter Crops Wintering. Leningrad: Gidrometeoizdat, 1981.

Mechanization of Seed Production of Perennial Grasses. Leningrad: Kolos, 1981.

Methods of Optimization for Biochemical Breeding in Vegetable Crops. Kishinev: Shtiintsa, 1981.

Morphogenesis of Bluegrass and Its Use in Lawn Culture. Novosibirsk: Izd-vo Nauka, Sibirskoe otd-nie, 1981.

Mycoflora of the USSR Seas. Moskva: Nauka, 1981.

Pathological Diagnosis of Infectious Diseases of Swine. Minsk: Uradzhai, 1980.

Prevention and Treatment of Gynecological Illnesses in Cows. Moskva: Rossel'khozizdat, 1981.

Rivers and Lakes. Moskva: Gos. Izd-vo geogr. lit-ry, 1960.

The Production of High Quality Wool. Moskva: Rossel'khozizdat, 1981.

The Role of Temperature and Plant Hormones in the Disturbance of Seed Dormancy. Leningrad: Nauka, Leningradskoe otd-nie, 1981.

Sawflies - Pests in Agriculture and Silviculture in Byelorussian S.S.R. Minsk: Nauka i tekhnika, 1981.

Technology of Postharvesting Treatment of Grain Seeds. Moskva: Kolos, 1981.

Trace Elements in Animal Husbandry and Plant Breeding. Frunze: Ilim., 1976.

Vineyards on Terraced Slopes. Moskva: Kolos, 1982.

Water Exchange and Productivity of Apples Under the Synchronous Impulses of Sprinkler Irrigation. Kishinev: Shtiintsa, 1979.

Ways of Increasing the Quality of Wheat Grain. Baku: Izd-vo Elm, 1982.

Weather and Effective Fertilization. Leningrad: Gidrometeoizdat, 1985. 

LIST OF 100 MOST REQUESTED JOURNALS FOR AGRICULTURAL RESEARCH

Attached is a list of the 100 most requested journals for agricultural research. This list was compiled by Charles Bebee and was derived from the Information Systems Division cumulative hit-list for CALS (Current Awareness Literature Service) profiles, October 1981-August 1985. The titles selected for this list ranged from 10,000 to over 100,000 hits each during this time period. All titles are indexed in AGRICOLA.

Acta Horticulturae (The Hague)
Agric. and Biological Chemistry (Japan)
Agronomy Journal
American Journal of Botany
American Journal of Clinical Nutrition
American Journal of Physiology
American Journal of Veterinary Research
American Review of Respiratory Diseases
Analytical Biochemistry
Annals of Applied Biology
Annals of Botany
Annals of the Entomological Soc. of Amer.
Applied and Environmental Microbiology
Archives of Biochemistry and Biophysics
Biochemical and Biophysical Res. Comm.
Biochemical Journal
Biochemical Pharmacology
Biochemistry
Biochimica et Biophysica Acta
Biophysical Journal
Canadian Entomologist
Canadian Journal of Animal Science
Canadian Journal of Botany
Canadian Journal of Microbiology
Canadian Journal of Plant Science
Cancer Research
Cell
Cereal Chemistry
Clinical Chemistry
Comparative Biochem. and Physiology B
Endocrinology
Entomologia Experimentalis et Applicata
Environmental Entomology
Euphytica
Experientia (Basel)
FEBS Letters
Federation Proceedings
Gastroenterology
Genetics
Hortscience
Indian Journal of Agricultural Science

Indian Journal of Biochem. and Biophysics
Indian Journal of Animal Science
Journal of Agriculture and Food Chemistry
Journal of Agricultural Science
Journal of the Amer. Society for Hort. Science
Journal of Animal Science
Journal of the Assoc. of Offic. Analyt. Chemists
Journal of Biological Chemistry
Journal of Cell Biology
Journal of Chemical Ecology
Journal of Clinical Microbiology
Journal of Economic Entomology
Journal of Environmental Quality
Journal of Experimental Botany
Journal of Food Science
Journal of General Virology
Journal of Immunology
Journal of Insect Physiology
Journal of Invertebrate Pathology
Journal of Maharashtra Agricultural Univ.
Journal of Nematology
Journal of Nutrition
Journal of Physiology (London)
Journal of Range Management
Journal of the Science of Food and Agric.
Journal of Virology
Journal of Dairy Science
Journal of Dental Research
Life Sciences
Molecular and Biological Parasitology
Molecular and General Genetics
Mosquito News
Mutation Research
Nature (London)
New Phytologist
Nutrition Reports International
OECOLOGIA (Berlin)
Pediatric Research
Physiologia Plantarum
Phytopathology
Phytopathol Zettschrift
Plant Disease
Plant Physiology
Proc. of Natl. Academy of Science of the USA
Poultry Science
Phytochemistry
Science (Washington, D.C.)
Selskokh: Biologiya
Soil Science Society of America J.
Tetrahedron Letters
Theoretical & Applied Genetics
Virology
Weed Science
Zeitschrift fuer Angewandte Entomologie
Intl. Journal of Plant Physiology

QUICK BIBLIOGRAPHIES

The bibliographies in this series are primarily computerized online or batch bibliographies emanating from searches performed by the NAL reference staff in response to customer requests.

Searches are selected for inclusion based on the currency of the topic, interest among clientele, relative length and probable value to a larger audience. Revisions or updates will be renumbered and reannounced. Only one copy of a title will be sent; however, requesters may make copies. To request a copy of a Quick Bibliography send the title, series number, and a return addressed label to:

Reference Branches, Room 111
National Agricultural Library
Beltsville, MD 20705

NAL--Q.B.--86-66. NONPOINT SOURCE POLLUTION: AN AGRICULTURAL CONCERN, 1983-85. 154 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. May 1986.

NAL--Q.B.--86-67. HERBICIDES: ECOLOGICAL EFFECTS, 1979-85. 207 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. May 1986.

NAL--Q.B.--86-68. SUGAR SUBSTITUTES AND ALTERNATIVE SWEETENERS, 1982-85. 165 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. May 1986.

NAL--Q.B.--86-69. WORLD TOBACCO OUTLOOK, 1979-85. 250 citations from AGRICOLA. Languages none excluded. Searched by Mary Lassanyi. May 1986.

NAL--Q.B.--86-70. AGRICULTURAL POLICIES AND RESEARCH PROGRAMS, 1979-85. 207 citations from AGRICOLA. English only. Searched by Mary Lassanyi. May 1986.

NAL--Q.B.--86-71. FARMER TO CONSUMER MARKETING, 1979-85. 155 citations from AGRICOLA. English only. Searched by Sheldon Cheney. June 1986. Updates 80-01 and 80-29. 



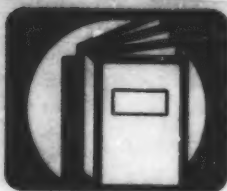
NEW BIBLIOGRAPHIES

Copies of the following bibliographies are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. Telephone: (703) 487-4780.

Guides and Manuals for Pesticide Applicator Training: January 1979-August 1985, Citations from AGRICOLA. Compiled and edited by Charles N. Bebee, Beltsville, MD, U.S. Department of Agriculture, National Agricultural Library and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticides Programs. (Bibliographies and Literature of Agriculture No. 47.) March 1986. 208 p. \$22.95 (paper) and \$5.95 (microfiche). PB86-182243/AS.

The Protection of Peanuts: January 1979-July 1985, Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Compiled and edited by Charles N. Bebee, Beltsville, MD, U.S. Department of Agriculture, National Agricultural Library and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticides Programs. (Bibliographies and Literature of Agriculture No. 45.) March 1986. 107 p. \$16.95 (paper) and \$5.95 (microfiche). PB86-182326/AS.

The Protection of Sorghum and Millets: January 1979-July 1985, Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Compiled and edited by Charles N. Bebee, Beltsville, MD, U.S. Department of Agriculture, National Agricultural Library and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticides Programs. (Bibliographies and Literature of Agriculture No. 46.) March 1986. 107 p. \$16.95 (paper) and \$5.95 (microfiche). PB86-183126/AS. 



NEW PUBLICATIONS OF NOTE

***AGRICULTURAL CHARTBOOK. UNITED STATES DEPARTMENT OF AGRICULTURE.** Washington, D.C., U.S. Department of Agriculture. 1985. (Agriculture Handbook No. 652). \$3.50. S/N 001-019-00428-2.

****AGRICULTURAL STATISTICS OF EGYPT, 1970-84.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. August 1985. 104 p. (Report No. USDA/SB-732). \$16.95. PB86-100161/XAB.

***AGRICULTURE'S LINKS WITH U.S. AND WORLD ECONOMIES.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. September 1985. 61 p. (Agriculture Information Bulletin No. 496.) \$1.50. S/N 001-019-00409-6.

*****DIRECTORY OF LIBRARY STAFF ORGANIZATIONS.** February 1986. Frances M. Jones and Patrick L. Jarvis. Over 300 staff organizations surveyed in the United States and Canada are listed. Organizations range from collective bargaining to acting as liaison between staff and management to continuing education opportunities and staff welfare and recreation services. 144 p. \$37.50.

***DYNAMICS OF COMPARATIVE ADVANTAGE AND THE RESISTANCE TO FREE TRADE.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. 1985. (Foreign Agricultural Economic Report No. 214). 20 p. \$1.00. S/N 001-019-00396-1.

****FUNDAMENTALS OF NEMATOLOGY. VOLUME 29. FILARIDS OF DOMESTIC AND WILD ANIMALS.** Washington, D.C., U.S. Department of Agriculture. 1985. (Report No. TT-81-52137). 192 p. \$16.95. PB86-135712/XAB.

****INDEX-CATALOGUE OF MEDICAL AND VETERINARY ZOOLOGY. SPECIAL PUBLICATION NUMBER 6.** SUBJECT: NEMATODA AND NEMATODE DISEASES. PART 3: SUPERGENERA, GENERA, SPECIES, AND SUBSPECIES: F-M. Beltsville, MD, U.S. Department of Agriculture, Agricultural Research Service. July 1985. 571 p. \$40.95. PB86-116498/XAB.

****INDEX-CATALOGUE OF MEDICAL AND VETERINARY ZOOLOGY. SPECIAL PUBLICATION NUMBER 6.** SUBJECT: NEMATODA AND NEMATODE DISEASES. PART 4: SUPERGENERA, GENERA, SPECIES, AND SUBSPECIES: N-SO. Beltsville, MD, U.S. Department of Agriculture, Agricultural Research Service. August 1985. 558 p. \$40.95. PB86-134749/XAB.

****INTEGRATED PEST MANAGEMENT RESEARCH SYMPOSIUM: THE PROCEEDINGS.** New Orleans, LA, U.S. Department of Agriculture, Forest Service. August 1985. (Report No. FSGTR-SO-56). 387 p. \$28.95. PB86-138906/XAB.

*****LIBRARIAN IN SEARCH OF A PUBLISHER: HOW TO GET PUBLISHED.** January 1986. Brian Alley and Jennifer Cargill. Explores the various outlets of professional publishing, including writing articles or book reviews for journals and newsletters, compiling bibliographies, and writing books. Discusses copyright, royalties, manuscript production, and how to deal with editors and publishers. 176 p. \$18.50.

*****MANAGING THE LIBRARY AUTOMATION PROJECT.** November 1985. John Corbin. Emphasizes the planning, organization, management, and step-by-step process necessary to implement a library automation project. 280 p. \$35.00

ONLINE RESEARCH AND RETRIEVAL WITH MICROCOMPUTERS. Nahum Goldmann, ed. 1985. Provides an overview of online services and databases. Designed for end-users to prepare and run their own searches using the described subject searching techniques. Examples from NAL's AGRICOLA database are also included. \$24.00. Order from TAB Professional and Reference Books, P. O. Box 40, Blue Ridge Summit, PA 17214. Tel.: (717) 794-2191.

PLANT PROPAGATION FOR PROFESSIONAL NURSERYMEN, VOL. 1. 1986. Bruce Macdonald. Concerns all aspects of propagation from tissue culture through grafting, budding layering, and cuttings. \$34.95. Order from Timber Press, P. O. Box 1632 YA, Beaverton, OR 97075. Tel.: (800) 547-7734.

***U.S. AGRICULTURE'S POTENTIAL TO SUPPLY WORLD FOOD MARKETS.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. 1985. (Agricultural Economic Report No. 539). 48 p. \$2.00. S/N 001-019-00403-7.

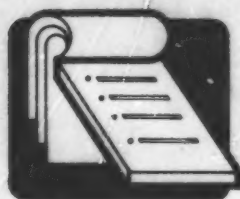
***THE U.S. TURKEY INDUSTRY.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. 1985. (Agricultural Economic Report No. 525). 64 p. \$3.00. S/N 001-019-00385-5.

WORLD CROP PESTS. VOLUME 1. SPIDER MITES. THEIR BIOLOGY, NATURAL ENEMIES AND CONTROL, PARTS A & B. 1986. W. Helle and M.W. Sabelis, eds. Vol. 1A, The Tetranychidae. \$105.50. Vol. 1B, Natural Enemies of the Tetranychidae. \$111.00. Order from Elsevier Science Publishing, Inc., P. O. Box 1663, Grand Central Station, New York, NY 10163.

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TA12.D47

MARINE MAMMAL SCIENCE. Lawrence, KS, Society for Marine Mammalogy. q. Vol. 1, no. 1 (1985)-

QL713.2.M372

THE NORTH AMERICAN ONLINE DIRECTORY. New York, NY, R.R. Bowker. a. (1985)-
Z674.3.I53

PARASITOLOGY TODAY. Amsterdam, Elsevier Science Publishers. m. Vol. no. 1 (July 1985)-

QL757.P374

THE SOFTWARE ENCYCLOPEDIA. New York, NY, R.R. Bowker. 2 vols. (1985/86)-
QA76.5.S63

THE SOFTWARE USERS' YEAR BOOK. London, England, VNU Business Publications. a. (1985-86)-

QA76.6.I664

WONDER CROPS. Dudley, MA, Natural Food Institute. a. (1985)-
SB115.W65

QUARTERLY ECONOMIC REVIEW OF CONGO, GABON, EQUATORIAL GUINEA. London, England, Economist Intelligence Unit. q. No. 1 (1985)-

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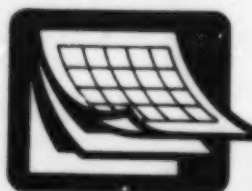
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August 3-6: SOIL CONSERVATION SOCIETY OF AMERICA 41ST ANNUAL MEETING. Winston-Salem, NC. Theme: "New Challenges for Conservation Partners." Contact: SCSA, 7515 N.E. Ankeny Rd., Ankeny, IA 50021-9764.

August 10-14: AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES - 37TH ANNUAL MEETING. Amherst, MA, Murray D. Lincoln Campus Center, University of Massachusetts. Contact: AIBS, 730 11th St., N.W., Washington, D.C. 20001. Tel.: (202) 628-1500.

August 11-20: 22ND INTERNATIONAL HORTICULTURAL CONGRESS. Davis, CA, University of California. Contact: Carolyn Norlyn, Campus Events and Information Office, University of California, Davis, CA 95616. Tel.: (916) 752-1826.

August 14-27: IFLA TOKYO LIBRARY FAIR AND THE 52ND GENERAL CONFERENCE OF IFLA. Tokyo, Japan, Hotel New Otani. Contact: IFLA Tokyo Library Fair Office, Ikari Dai-ichi Bldg., Sanei-Cho 8, Shinjuku-ky, Tokyo 160, Japan. Tel.: (03) 358-7685.

August 20-22: INTERACTIVE VIDEODISC IN EDUCATION AND TRAINING. Washington, D.C., J. W. Marriott Hotel. Contact: Society for Applied Learning Technology, 50 Culpeper Street, Warrenton, VA 22186. Tel.: (703) 347-0055.

August 24-28: 7TH EUROPEAN POULTRY CONFERENCE. Paris, France. Contact: Michel Larbier, Station de Recherches Avicoles, INRA Nouzilly, 37380, Mannaie, France.

September 8-10: AMERICAN FEED INDUSTRY ASSOCIATION LIQUID FEED SYMPOSIUM. Denver, CO, Clarion Inn. Contact: American Feed Industry Assoc., 1701 N. Ft. Myer Drive, Arlington, VA 22209.

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September 15-18: 100TH ANNUAL
ASSOCIATION OF OFFICIAL ANALYTICAL
CHEMISTS' INTERNATIONAL MEETING.
Scottsdale, AZ, The Registry. USDA
Exhibitor: National Agricultural
Library. Contact: Margaret Ridgell,
AOAC, 1111 N. 19th Street, Suite 210,
Arlington, VA 22209.

September 22-26: CHEMRAWN V WORLD
CONFERENCE ON RESOURCE MATERIAL
CONVERSION. Heidelberg, West Germany.
Theme: "Current and Future
Contributions of Chemistry to
Health--The New Frontiers." Contact:
Conf. Secretariat, Gesellschaft
Deutscher Chemiker, Abteilung Tagungen,
P. O. Box 900400, D-6000 Frankfurt am
Main 90, West Germany.

September 28-October 2: AMERICAN
SOCIETY FOR INFORMATION SCIENCE 49TH
ANNUAL MEETING. Chicago, IL, Chicago
Hilton Hotel. Theme: "Shaping the
Future: The Sky's the Limit."
Contact: ASIS, 1424 Sixteenth St.,
N.W., Suite 404, Washington, D.C.
20036. Tel.: (202) 462-1000.

October 1-3: NATIONAL BROILER
COUNCIL'S 32ND ANNUAL CONFERENCE.
Washington, D.C., J. W. Marriott Hotel.
USDA Speaker: Secretary of Agriculture
Richard E. Lyng. Contact: NBC, 1155 15th
St., N.W., Suite 614, Washington, D.C.
20005.

October 5-8: SOCIETY OF AMERICAN
FORESTERS. Birmingham, AL, Birmingham
Jefferson Convention Center. USDA
Exhibits: National Agricultural Library.
Contact: Dennis LeMaster, (301)
897-8720. 

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